

**Set Name Query**  
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*DB=USPT,EPAB,DWPI; PLUR=YES; OP=OR*

<u>L22</u>	WO adj 9943794	2	<u>L22</u>
<u>L21</u>	L20 and plant	0	<u>L21</u>
<u>L20</u>	WO adj 9741213	2	<u>L20</u>
<u>L19</u>	L16 and plant	0	<u>L19</u>
<u>L18</u>	L16 and transformation	0	<u>L18</u>
<u>L17</u>	L16 and transgenic	0	<u>L17</u>
<u>L16</u>	WO adj 9743424	2	<u>L16</u>
<u>L15</u>	L14 and plant adj transformation	2	<u>L15</u>
<u>L14</u>	L10 and plant	78	<u>L14</u>
<u>L13</u>	L10 and transformation.ab.	1	<u>L13</u>
<u>L12</u>	L10 and transformation.ab	0	<u>L12</u>
<u>L11</u>	L10 and transformation	93	<u>L11</u>
<u>L10</u>	NCIB adj 11837 and amylase	99	<u>L10</u>
<u>L9</u>	9800269	9	<u>L9</u>

*DB=USPT,DWPI; PLUR=YES; OP=OR*

<u>L8</u>	DK adj 9800269	0	<u>L8</u>
<u>L7</u>	DK 9800269	1007951	<u>L7</u>
<u>L6</u>	9800269	8	<u>L6</u>

*DB=USPT,PGPB,DWPI; PLUR=YES; OP=OR*

<u>L5</u>	L2 and amylase.ab.	4	<u>L5</u>
<u>L4</u>	L2 and transformation.ab.	0	<u>L4</u>
<u>L3</u>	L2 and wheat.ab.	0	<u>L3</u>
<u>L2</u>	L1 and transformation and wheat	52	<u>L2</u>
<u>L1</u>	NCIB adj 11837	124	<u>L1</u>

END OF SEARCH HISTORY

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result set*DB=USPT; PLUR=YES; OP=OR*L25 Kjaerulff-soren-\$.in.0 L25L24 vanlose-soren-\$.in.0 L24L23 nielsen-jack-\$.in.14 L23L22 46043558 L22L21 45980488 L21L20 492004813 L20L19 L18 and alpha adj amylase4 L19L18 L17 and wheat5 L18L17 56935065 L17*DB=USPT,DWPI; PLUR=YES; OP=OR*L16 99437942 L16L15 99437932 L15*DB=USPT; PLUR=YES; OP=OR*L14 99437930 L14L13 WO adj 99437930 L13L12 4379344 L12*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*L11 56935066 L11L10 L9 and amylase.clm.4 L10L9 L8 and transgenic.clm.47 L9L8 L7 and wheat.clm.104 L8L7 wheat and alpha adj amylase and transformation750 L7L6 L3 and transformation.clm.8 L6L5 571211210 L5L4 L3 and transgenic.clm.19 L4L3 wheat and beta adj amylase518 L3*DB=USPT; PLUR=YES; OP=OR*L2 Wo adj 2000295910 L2*DB=DWPI; PLUR=YES; OP=OR*L1 Wo adj 0295910 L1

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NEWS	8	Apr 22 Federal Research in Progress (FEDRIP) now available
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NEWS	10	Jun 10 MEDLINE Reload
NEWS	11	Jun 10 PCTFULL has been reloaded
NEWS	12	Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
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NEWS	15	Jul 30 NETFIRST to be removed from STN
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NEWS	19	Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
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NEWS	21	Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26 Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03 JAPIO has been reloaded and enhanced
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NEWS	29	Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
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NEWS	36	Dec 17 TOXCENTER enhanced with additional content
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NEWS	38	Dec 30 ISMEC no longer available

NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
 NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003  
 NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
 ENERGY, INSPEC  
 NEWS 42 Feb 13 CANCERLIT is no longer being updated  
 NEWS 43 Feb 24 METADEX enhancements  
 NEWS 44 Feb 24 PCTGEN now available on STN  
 NEWS 45 Feb 24 TEMA now available on STN  
 NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation  
 NEWS 47 Feb 26 PCTFULL now contains images  
 NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003  
 NEWS 50 Mar 20 EVENTLINE will be removed from STN  
 NEWS 51 Mar 24 PATDPAFULL now available on STN  
 NEWS 52 Mar 24 Additional information for trade-named substances without  
 structures available in REGISTRY  
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS  
 NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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=> s ncib(w)11837

L1 4 NCIB(W) 11837

=> d l1 1-4

L1 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1986:384744 BIOSIS  
DN BR31:70364  
TI MALTOGENIC AMYLASE ENZYME PREPARATION AND USE THEREOF.  
AU OUTTRUP H  
CS SYVENDEHUSVEJ, DENMARK.  
ASSIGNEE: NOVO INDUSTRI A/S  
PI US 4604355 05 Aug 1986  
SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1069 (1), 323.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DT Patent  
FS BR; OLD  
LA English

L1 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:351675 CAPLUS  
DN 133:1485  
TI Transgenic cereal plant expressing maltogenic amylase gene and  
anti-staling effect in baking application  
IN Nielsen, Jack Bech; Kjaerulff, Soren  
PA Novo Nordisk A/S, Den.  
SO PCT Int. Appl., 47 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000029591	A1	20000525	WO 1999-DK624	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137788	A1	20011004	EP 1999-955838	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI DK 1998-1478	A	19981112		
US 1999-123643P	P	19990310		
WO 1999-DK624	W	19991112		

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1999:566161 CAPLUS  
 DN 131:181666  
 TI Maltogenic .alpha.-amylase variants with altered properties  
 IN Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars;  
 Frandsen, Torben Peter  
 PA Novo Nordisk A/S, Den.  
 SO PCT Int. Appl., 146 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943794	A1	19990902	WO 1999-DK88	19990226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2321595	AA	19990902	CA 1999-2321595	19990226
AU 9925129	A1	19990915	AU 1999-25129	19990226
BR 9908281	A	20001031	BR 1999-8281	19990226
EP 1058724	A1	20001213	EP 1999-904736	19990226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
NZ 505820	A	20021025	NZ 1999-505820	19990226
US 6162628	A	20001219	US 1999-386607	19990831
PRAI DK 1998-269	A	19980227		
US 1998-77795P	P	19980312		
WO 1999-DK88	W	19990226		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:566160 CAPLUS  
 DN 131:196369  
 TI Novamyl and cyclodextrin glucanotransferase variants with altered catalytic properties  
 IN Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars; Frandsen, Torben Peter; Schaefer, Thomas  
 PA Novo Nordisk A/S, Den.  
 SO PCT Int. Appl., 59 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943793	A1	19990902	WO 1999-DK87	19990226
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,				

TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 CA 2320813 AA 19990902 CA 1999-2320813 19990226  
 AU 9925128 A1 19990915 AU 1999-25128 19990226  
 EP 1066374 A1 20010110 EP 1999-904735 19990226  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 US 6482622 B1 20021119 US 2000-645707 20000824  
 US 2003059902 A1 20030327 US 2002-234266 20020904  
 PRAI DK 1998-269 A 19980227  
 DK 1998-273 A 19980227  
 US 1998-77509P P 19980311  
 US 1998-77795P P 19980312  
 WO 1999-DK87 W 19990226  
 US 2000-645707 A3 20000824  
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s MALTOGENIC(w) AMYLASE(w) ENZYME  
 L2 4 MALTOGENIC(W) AMYLASE(W) ENZYME

=> d l2 1-4

L2 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1986:384744 BIOSIS  
 DN BR31:70364  
 TI \*\*\*MALTOGENIC\*\*\* \*\*\*AMYLASE\*\*\* \*\*\*ENZYME\*\*\* PREPARATION AND  
 USE THEREOF.  
 AU OUTTRUP H  
 CS SYVENDEHUSVEJ, DENMARK.  
 ASSIGNEE: NOVO INDUSTRI A/S  
 PI US 4604355 05 Aug 1986  
 SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1069 (1), 323.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 DT Patent  
 FS BR; OLD  
 LA English

L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1986:326768 BIOSIS  
 DN BR31:41350  
 TI PREPARATION OF A \*\*\*MALTOGENIC\*\*\* \*\*\*AMYLASE\*\*\* \*\*\*ENZYME\*\*\*  
 AU DIDERICHSEN B K; CHRISTIANSEN L  
 CS HELLERUP, DENMARK.  
 ASSIGNEE: NOVO INDUSTRI A/S  
 PI US 4598048 01 Jul 1986  
 SO Off. Gaz. U. S. Pat. Trademark Off., Pat., (1986) 1068 (1), 324.  
 CODEN: OGUPE7. ISSN: 0098-1133.  
 DT Patent  
 FS BR; OLD  
 LA English

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:736355 CAPLUS

DN 137:246620  
 TI Improved fermentation process  
 IN Olsen, Hans Sejr; Pedersen, Sven; Beckerich, Robert; Veit, Christopher;  
 Felby, Claus  
 PA Novozymes A/S, Den.; Novozymes North America, Inc  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002074895	A2	20020926	WO 2002-DK179	20020319
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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,				
	TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,				
	CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-277383P	P	20010319		
	US 2001-277384P	P	20010319		
	US 2001-304380P	P	20010710		

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AN 1985:60788 CAPLUS

DN 102:60788

TI \*\*\*Maltogenic\*\*\* \*\*\*amylase\*\*\* \*\*\*enzyme\*\*\* product, and its  
 use

IN Outtrup, Helle; Diderichsen, Boerge Krag; Christiansen, Lars

PA Novo Industri A/S, Den.

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 120693	A1	19841003	EP 1984-301994	19840323
	EP 120693	B1	19890531		
	R:				
	AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4598048	A	19860701	US 1984-591461	19840320
	US 4604355	A	19860805	US 1984-591460	19840320
	DK 8401610	A	19840926	DK 1984-1610	19840321
	DK 153799	B	19880905		
	DK 153799	C	19890123		
	AT 43634	E	19890615	AT 1984-301994	19840323
	JP 60002185	A2	19850108	JP 1984-56379	19840326
	JP 04072505	B4	19921118		
	CA 1214407	A1	19861125	CA 1984-450515	19840326
PRAI	DK 1983-1359		19830325		
	EP 1984-301994		19840323		



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NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
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NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded

NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
 NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
 NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
 NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
 NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
 NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
 NEWS 27 Oct 21 EVENTLINE has been reloaded  
 NEWS 28 Oct 24 BEILSTEIN adds new search fields  
 NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
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 NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003  
 NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
 ENERGY, INSPEC  
 NEWS 42 Feb 13 CANCERLIT is no longer being updated  
 NEWS 43 Feb 24 METADEX enhancements  
 NEWS 44 Feb 24 PCTGEN now available on STN  
 NEWS 45 Feb 24 TEMA now available on STN  
 NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation  
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 NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003  
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 NEWS 51 Mar 24 PATDPAFULL now available on STN  
 NEWS 52 Mar 24 Additional information for trade-named substances without  
 structures available in REGISTRY  
 NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS  
 NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
 CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE 'BIOSIS' ENTERED AT 16:57:26 ON 28 MAR 2003

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=> s alpha(w)amylase and maltogenic and bacillus and cdna

L1 1 ALPHA(W) AMYLASE AND MALTOGENIC AND BACILLUS AND CDNA

=> d l1 1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 1999:783872 CAPLUS

DN 132:11821

TI Methods for using xyloglucan endotransglycosylase in baking

IN Ilum Nielsen, Ruby

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9962343	A1	19991209	WO 1999-DK277	19990521
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2328137	AA	19991209	CA 1999-2328137	19990521
AU 9940299	A1	19991220	AU 1999-40299	19990521
EP 1082017	A1	20010314	EP 1999-923404	19990521
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				

PRAI DK 1998-749           A     19980529  
US 1998-88096P         P     19980605  
WO 1999-DK277         W     19990521

RE.CNT 6        THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
          ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l1 1 ab

L1    ANSWER 1 OF 1   CAPLUS   COPYRIGHT 2003 ACS

AB    The present invention relates to methods for prepg. a dough, comprising incorporating into the dough a compn. comprising an effective amt. of an xyloglucan endotransglycosylase (XET) which improves one or more properties of the dough or a baked product obtained from the dough. The present invention also relates to methods for prepg. a baked product. The present invention also relates to compns. comprising an effective amt. of an XET for improving one or more properties of a dough and/or a baked product obtained from the dough. The present invention further relates to doughs or baked products and to pre-mixes for a dough. Finally, the cloning and expression an an XET from Tiarosporella phaseolina is described.

=> s amylase and maltogenic and bacillus and cDNA

L2           1 AMYLASE AND MALTOGENIC AND BACILLUS AND CDNA

=> d l2 1 ab

L2    ANSWER 1 OF 1   CAPLUS   COPYRIGHT 2003 ACS

AB    The present invention relates to methods for prepg. a dough, comprising incorporating into the dough a compn. comprising an effective amt. of an xyloglucan endotransglycosylase (XET) which improves one or more properties of the dough or a baked product obtained from the dough. The present invention also relates to methods for prepg. a baked product. The present invention also relates to compns. comprising an effective amt. of an XET for improving one or more properties of a dough and/or a baked product obtained from the dough. The present invention further relates to doughs or baked products and to pre-mixes for a dough. Finally, the cloning and expression an an XET from Tiarosporella phaseolina is described.

=> s transform? and wheat and amylase and malt

L3           8 TRANSFORM? AND WHEAT AND AMYLASE AND MALT

=> duplicate remove l3

PROCESSING COMPLETED FOR L3

L4           8 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)

=> d l3 1-8 ti

L3    ANSWER 1 OF 8   CAPLUS   COPYRIGHT 2003 ACS

TI    Self-processing transgenic plants and plant parts expressing hyperthermophilic processing enzymes

L3    ANSWER 2 OF 8   CAPLUS   COPYRIGHT 2003 ACS

TI    Expression system for seed proteins

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Protein and cDNA sequences of .epsilon.1 hordein from barley,  
\*\*\*wheat\*\*\* , and/or rye, and uses thereof to enhance the quality of  
foam  
in beer

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Malting process for the production of degradation and/or conversion  
products of storage substances present in transgenic plant material

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Process for protein production in plants

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Genetic engineering and plant breeding, especially cereals

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Sources of beta- \*\*\*amylase\*\*\* as supplements to barley \*\*\*malts\*\*\*  
in saccharification and fermentation

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS  
TI Action of enzymes upon starches of different origin

=> d 13 8 ibib ab

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1919:11827 CAPLUS  
DOCUMENT NUMBER: 13:11827  
ORIGINAL REFERENCE NO.: 13:2297e-i  
TITLE: Action of enzymes upon starches of different origin  
AUTHOR(S): Sherman, H. C.; Walker, Florence; Caldwell, Mary L.  
SOURCE: J. Am. Chem. Soc. (1919), 41, 1123-9  
CODEN: JACSAT; ISSN: 0002-7863  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB The starches were prepd. from \*\*\*wheat\*\*\* flour, corn meal, white rice  
and mature potatoes in 4 ways: (1) Washing with H2O only, (2) with very  
dil. alkali, (3) with Et2O after washing with H2O, and (4) with Et2O after  
washing with alkali. The action of saliva, pancreatin, purified  
pancreatic \*\*\*amylase\*\*\* , \*\*\*malt\*\*\* ext., purified \*\*\*malt\*\*\*  
\*\*\*amylase\*\*\* , taka-diastase and purified \*\*\*amylase\*\*\* of  
Aspergillus oryzae on these starches was studied by allowing the enzyme to  
act upon a 1% dispersion of the boiled starch for 30 min. at 40.degree.,  
using such an amt. of the enzyme soln. as would result in the formation of  
about 1/3 to 1/2 of the theoretically possible amt. of maltose, and detg.  
the reducing sugar formed by titration with Fehling soln. It was found  
that, when similarly purified by washing with very dil. alkali,  
\*\*\*wheat\*\*\* , maize and rice starches show the same digestibility in the  
sense that under the action of the same kind and amt. of \*\*\*amylase\*\*\*  
they are all \*\*\*transformed\*\*\* into reducing sugar at essentially the  
same rate. When washed with H2O only, potato starch is almost pure but  
the cereal starches seem to contain enough fatty or waxy matter to  
interfere appreciably with the action of the enzymes even after the starch  
has been dispersed by boiling in H2O 3 min. This is true to a greater  
extent of maize than of \*\*\*wheat\*\*\* starch. Potato starch in general

shows a rate of enzymic hydrolysis equal to or slightly greater than that of the cereal starches, the only case in which it showed a distinctly lower rate of hydrolysis being one in which both the starch and the enzyme were highly purified; this tendency to abnormally low results is readily corrected by suitable additions to the digestion mixt., as will be shown in a subsequent paper.

=> d 13 1

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 AN 2003:173758 CAPLUS  
 TI Self-processing transgenic plants and plant parts expressing hyperthermophilic processing enzymes  
 IN Lanahan, Michael B.; Basu, Shib Sankar; Batie, Christopher J.; Chen, Wen; Craig, Joyce; Kinkema, Mark  
 PA Syngenta Participations A.-G., Switz.  
 SO PCT Int. Appl., 158 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003018766	A2	20030306	WO 2002-US27129	20020827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI US 2001-315281P	P	20010827		

=> d 13 2

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:637802 CAPLUS  
 DN 137:180781  
 TI Expression system for seed proteins  
 IN Huang, Ning; Yang, Daichang  
 PA Ventria Bioscience, USA  
 SO PCT Int. Appl., 230 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002064750	A2	20020822	WO 2002-US4909	20020214
WO 2002064750	A3	20021121		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
 TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 PRAI US 2001-269188P P 20010214  
 US 2001-269199P P 20010214  
 US 2001-847232 A2 20010502

=> d 13 3

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 AN 2000:175936 CAPLUS  
 DN 132:218010  
 TI Protein and cDNA sequences of .epsilon.1 hordein from barley,  
 \*\*\*wheat\*\*\* , and/or rye, and uses thereof to enhance the quality of  
 foam

in beer  
 IN Vaag, Pia; Bech, Lene Molskov; Cameron-Mills, Varena; Sorensen, Mikael  
 Blom  
 PA Den.  
 SO PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000014237	A2	20000316	WO 1999-IB1597	19990902
	WO 2000014237	A3	20000831		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2341760	AA	20000316	CA 1999-2341760	19990902
	AU 9956451	A1	20000327	AU 1999-56451	19990902
	EP 1108031	A2	20010620	EP 1999-943182	19990902
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO			
PRAI	US 1998-146703	A2	19980903		
	US 1999-115756P	P	19990113		
	WO 1999-IB1597	W	19990902		

=> d 13 4

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 AN 1997:618201 CAPLUS

DN 127:260314  
 TI Malting process for the production of degradation and/or conversion  
 products of storage substances present in transgenic plant material  
 IN Sarx, Hans-georg; Diefenthal, Thomas; Wolf, Norbert  
 PA Friedrich Weissheimer Malzfabrik, Germany; Sarx, Hans-Georg; Diefenthal,  
 Thomas; Wolf, Norbert  
 SO PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9732986	A2	19970912	WO 1997-EP1255	19970305
	WO 9732986	A3	19971120		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2248023	AA	19970912	CA 1997-2248023	19970305
	AU 9720266	A1	19970922	AU 1997-20266	19970305
	AU 715778	B2	20000210		
	ZA 9701885	A	19971016	ZA 1997-1885	19970305
	EP 885304	A2	19981223	EP 1997-908223	19970305
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI				
	JP 2001501451	T2	20010206	JP 1997-531482	19970305
PRAI	EP 1996-103413	A	19960305		
	WO 1997-EP1255	W	19970305		

=> d 13 4 ab

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS  
 AB Disclosed is a method to facilitate the degrdn. of plant storage substances (starch, fat, etc.) by subjecting transgenic plant materials in a malting process, which transgenic plant expresses an enzyme that is active on degrading the storage substance(s), to obtain a degrdn. product such as cyclodextrins. A plant expression plasmid encoding cyclodextrin glycosyltransferase (CGTase) of Klebsiella pneumoniae or Bacillus macerans was prepd., which expression is under the control of barley .alpha.-  
 \*\*\*amylase\*\*\* promoter or the maize polyubiquitin promoter, and used for the \*\*\*transformation\*\*\* of \*\*\*wheat\*\*\* or barley. The seeds harvested from the stably \*\*\*transformed\*\*\* \*\*\*wheat\*\*\* or barley plants were treated by: (1) steeping to produce chit \*\*\*malt\*\*\*; (2) transferring the chit \*\*\*malt\*\*\* into a germination box to allow the seeds germinate to produce green \*\*\*malt\*\*\* expressing CGTase; and (3) converting starch with \*\*\*amylase\*\*\* into amylose which is subsequently converted into cyclodextrins by CGTase. The malted transgenic plant materials and/or malting soln. may be useful as a nutrient, pharmaceutical, or prophylactic compn.



=> d 13 5

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS  
AN 1995:777890 CAPLUS  
DN 123:162774  
TI Process for protein production in plants  
IN Rodriguez, Raymond L.  
PA University of California, USA  
SO PCT Int. Appl., 108 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9514099	A2	19950526	WO 1994-US13179	19941115
	WO 9514099	A3	19950908		
	W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN			
	RW:	KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5693506	A	19971202	US 1993-153563	19931116
	CA 2176834	AA	19950526	CA 1994-2176834	19941115
	AU 9512892	A1	19950606	AU 1995-12892	19941115
	AU 703288	B2	19990325		
	EP 788550	A2	19970813	EP 1995-904067	19941115
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
	JP 09509565	T2	19970930	JP 1994-514569	19941115
	US 5994628	A	19991130	US 1995-460507	19950602
PRAI	US 1993-153563		19931116		
	WO 1994-US13179		19941115		

=> d 13 6

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS  
AN 1993:621539 CAPLUS  
DN 119:221539  
TI Genetic engineering and plant breeding, especially cereals  
AU von Wettstein, Diter  
CS Dep. Physiol., Carlsberg Lab., Copenhagen Valby, DK-2500, Den.  
SO Food Reviews International (1993), 9(3), 411-22  
CODEN: FRINEL; ISSN: 8755-9129  
DT Journal; General Review  
LA English

=> d 13 6 ab

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS  
AB A review with 41 refs. Over the last 5000 yr, cereals have been bred for food, feed, and beverages by selection of spontaneous mutations and random hybrids. Since the turn of the century, crosses with defined parents, and since 1927 artificially induced mutations, have been used to create

variability on which selection of new varieties is based. It is pointed out that hybrid corn and transfer of rust-resistant genes from wild species into chromosomes of bread \*\*\*wheat\*\*\* was preceded by decades of basic research. Genetic \*\*\*transformation\*\*\* is an addnl. tool for the breeder to introduce novel genes in a rational manner and will complement but not replace the existing efficient breeding methods.

Genetic \*\*\*transformation\*\*\* has been demonstrated in maize, rice, and \*\*\*wheat\*\*\*, while techniques to obtain transgenic barley plants are still being developed. The authors' present knowledge on the endosperm-specific expression of storage proteins and the modulation of this expression by transcriptional activators is reviewed. Breeding strategies for altered protein quality and for proanthocyanidin-free malting barley are presented. Engineering of an improved \*\*\*malt\*\*\* enzyme, a heat stable (1-3, 1-4)-.beta.-glucanase, is described. The enzyme is expected to survive, like .alpha.- \*\*\*amylases\*\*\*, the kilning process and has been shown to act efficiently in the mashing process for the elimination of water-sol. .beta.-glucans which impede filtration of wort. The engineered enzyme is expressed in \*\*\*transformed\*\*\* aleurone protoplasts and secreted from these cells

and

thus shown to be operational in the tissue, where it is expected to work. Hormone-regulated promoters for the expression of genes acting during grain development and malting have been characterized. Prospects for the prodn. of polyhydroxyalkanoates and cyclodextrins in cereal grains are discussed.

=> d 13 7 ibib ab

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1947:12434 CAPLUS

DOCUMENT NUMBER: 41:12434

ORIGINAL REFERENCE NO.: 41:2532a-d

TITLE: Sources of beta- \*\*\*amylase\*\*\* as supplements to barley \*\*\*malts\*\*\* in saccharification and fermentation

AUTHOR(S): Schwimmer, Sigmund

CORPORATE SOURCE: U.S. Dept. Agr. Albany, Agr. Research Administration, CA

SOURCE: Ceram. Chem. (1947), 24, 70-8

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The concomitant saccharifying action on starch of 8 different barley \*\*\*malts\*\*\* in the presence of sweet potatoes, dry sweet-potato juice, sulfite ext., and aq. ext. of \*\*\*wheat\*\*\* flour, each as a supplementary source of .beta.- \*\*\*amylase\*\*\*, was detd. The rate of reaction was proportional to the enzyme concn. up to 33% starch conversion for flour \*\*\*amylase\*\*\* and not more than 50% starch conversion for sweet-potato \*\*\*amylase\*\*\*. Within these limits, it was found that the calcd. activity of \*\*\*malt\*\*\* and flour mixts. is about the same as the experimentally detd. activity, whereas the latter value tends to be higher than that calcd. for mixts. of sweet potato and \*\*\*malts\*\*\* high in .alpha.- \*\*\*amylase\*\*\* activity. Mixts. of \*\*\*malts\*\*\* and supplement in equiamylolytic amts. in fermentation tests gave higher alc. yield for the sweet-potato-supplemented mash. These results, which consistently demonstrate more extensive action in the presence of sweet potato, are consistent with the demonstration of appreciable concn. of

nonamylolytic enzymes therein concerned with sugar      \*\*\*transformation\*\*\*

=> d 13 8

L3    ANSWER 8 OF 8    CAPLUS    COPYRIGHT 2003 ACS  
AN    1919:11827    CAPLUS  
DN    13:11827  
OREF 13:2297e-i  
TI    Action of enzymes upon starches of different origin  
AU    Sherman, H. C.; Walker, Florence; Caldwell, Mary L.  
SO    J. Am. Chem. Soc. (1919), 41, 1123-9  
      CODEN: JACSAT; ISSN: 0002-7863  
DT    Journal  
LA    Unavailable

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	48.55	48.76
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.91	-3.91

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